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UNDESCRIBED PLANTS FROM GUATEMALA AND OTHER CENTRAL AMERICAN REPUBLICS. XXI.

JOHN DONNELL SMITH.

[*Concluded from p. 339.*]

Ardisia Palmana Donn. Sm.—Glabra. Folia subsessilia opaca subimmaculata integra oblongo-lanceolata e medio utrinque praesertim superne acute angustata. Paniculae terminales vastae floribundae, axibus alternis divaricatis, floriferis brevibus ad apicem versus subcapitato-floris. Calyx basi producto sessilis partitus, segmentis orbicularibus tubum corollinum paulo superantibus quam lobi ovales dimidio brevioribus. Antherae filamentis fere aequilongae.

Arbor, coma globosa (Tonduz in schedulis). Folia 1.5–3^{dm} longa 3.5–8^{cm} lata in petiolum brevissimum marginatum desinentia subtus pallidiora et obscure nigro-punctata, nervis approximatis. Paniculae folia aequantes folioso-bracteatae, axe flexuoso, ramis glanduloso-puberulis, inferioribus 1.5–2^{dm} longis, floriferis 5–10^{mm} longis, floribus arcte confertis 5–meris totis pallide roseis parce nigro-punctatis, bracteolis lanceolatis 1^{mm} longis. Calycis segment adextrorsum obtegentia 1.5^{mm} longa ciliatula basin crassum obpyramidatae quantia. Corollae 4^{mm} longae lobi dextrorsum convoluti 2^{mm} lati. Stamina prope basin corollae affixa 4^{mm} longa, antheris sagittato-lanceolatis longitudinaliter dehiscentibus. Ovarium diam. 1 millemetræ, stylo 3^{mm} longo. Fructus ignotus.

In sylvis prope La Palma, Costa Rica, alt. 1460^m, Sept. 1898, *Tonduz*, n. 12632 herb. nat. Cost.

Ardisia spicigera Donn. Sm.—Glaberrima. Folia coriacea oblanceolata acutiuscula in petiolum brevissimum longe angustata integerrima. Spicae interrupte densiflorae paniculam terminalem formantes, floribus ebracteolatis. Filamenta filiformia, antheris parvis.

Folia decurva 10–15^{cm} longa 3–5^{cm} lata opaca subtus squamulis fuscis ope lentis tantum conspicuis conspersa, costa nervisque supra immersis, petiolis 3–5^{mm} longis. Paniculae ramos terminantes folia superantes, axibus

angulatis, secundariis suberecto-patentibus 6–10^{cm} longis plerumque simplicibus, floribus aggregatis aut passim solitariis 5-meris parce lineato- et puncto-maculatis, alabastris ovoideis. Calycis partiti segmenta orbiculari-ovata obtusa 2^{mm} longa ciliata extus in medio rugulosa intus prope basin aureo-papillosa. Corollae tubus 2^{mm} longus, lobi dextrorsum obtegentes oblongi 3^{mm} longi obtusi. Filamenta basi dilatata 3^{mm} longa, antheris sagittato-triangularibus apiculatis 1^{mm} longis apice biporosis. Ovarium globosum 1.5^{mm} diam., stylo 5^{mm} longo. Fructum non vidi.

Comitan, Chiapas, Mexico, Aug. 1896, *Seler*, 2678.

Prestonia speciosa Donn. Sm.—Fusco-velutina. Folia discoloria supra parce pubescentia ovalia cuspidato-acuminata basi obtusa. Cyma umbelliformis pedunculata, floribus maximis. Calyx pedicello aequilongus. Corolla usque ad mediam fissa, tubo supra medium sensim ampliato calycem bis superante esquamato, lobis dolabriformibus. Antherae inclusae.

Stipulae interpetiolares utrinsecus circiter 8 setaceae 3^{mm} longae glabrae stramineae. Folia 16–21^{cm} longa 9–13^{cm} lata, nervis lateralibus utrinque 8–10, petiolis 1–1.5^{cm} longis. Pedunculus 5–8^{mm} longus, pedicellis 5–9 aequalibus 1.8^{cm} longis, bracteis lanceolatis 1^{cm} longis, alabastris fusiformibus 6^{cm} longis, 1^{cm} latis. Calycis segmenta oblongo-ovata, squamae truncato-deltoidae superne glabrae et stramineae paucidentatae denique setaceo-laceratae. Corollae tubus 3.6^{cm} longus ad $\frac{2}{3}$ longitudinis staminigerus, fauces superne 1.5^{cm} latae et plica 2^{mm} lata instructae, lobi glabri valde inaequilateres 2.5^{cm} lati. Filamenta 3^{mm} longa, antheris 8^{mm} longis. Disci partiti segmenta dentata ovarium paulo superantia, carpellis glabris semiorbicularibus 1.5^{mm} altis. Folliculi non suppetunt.

Buena Vista, Depart. Santa Rosa, Guat., alt. 1700^m, Apr. 1893, *Heyde et Lux*, n. 4497 Pl. Guat. etc., qu. ed. Donn. Sm.

Forsteronia myriantha Donn. Sm.—Fusco-pubescent. Folia opaca supra glabrescentia subtus ad nervos pubescentia denique glabra oblongo-elliptica acuminata mucrunculata basi acuta, inferiora minora elliptica utrinque obtusa. Cymae in thyrsum terminalem pedunculatum ovoideum compactae, floribus corymboso-fasciculatis inter minores pedicellos vix ac ne vix superantibus. Corolla ad fauces albo-barbata calyce intus glanduloso 3-plo longior, lobis tubo 3-plo longioribus. Filamenta antheris dimidio breviora.

Folia majora 8–10^{cm} longa 3.5–4^{cm} lata, minora 2.5–4.5^{cm} longa, 1.5–2.5^{cm} lata, nervis lateralibus utrinsecus 5–7, venis transversis subtus conspicuis, petiolis 3–5^{mm} longis. Pedunculi 0.5–3^{cm} longi. Thyrsus 3–4^{cm} longus atque latus, ramis secundariis aut primariis apice cymiferis, bracteolis lineari-lanceolatis 1–2.5^{mm} longis, floribus 3.5–4^{mm} longis. Calycis pubescentis segmenta ovata acuta intus circiter 6-glandulosa. Corollae segmenta utrinsecus puberula oblonga obtusa. Filamenta breviter filiformia, antheris oblongis 2^{mm} longis breviter acutata. Disci squamae sejunctae semiorbiculares. Ovarii carpella ovoidea hirtella. Folliculi non visi.

Emballada, Depart. Zacatepéquez, Guat., alt. 1800^m, m. Dec. 1889, *Heyde et Lux*, n. 4534 Pl. Guat. etc., qu. ed. Donn. Sm.—Naranjo, Depart. Santa Rosa, Guat., alt. 1100^m, Maj. 1893, *Heyde et Lux*, n. 4533 Pl. Guat. etc., qu. ed. Donn. Sm.

Lithospermum Guatemalense Donn. Sm.—Suffruticosum canescens scabro-strigosum, caulibus pluribus strictis foliosis superne 2–3-chotomis. Folia sessilia suberecta lineari-lanceolata acuta basi obtusa subtriplinervia subtus densius strigosa, floralia conformia reducta. Flores brevissime pedicellati. Corolla cylindracea segmentis calycinis linearibus 3-plo longior, faucibus nudis, lobis rotundatis. Antherae subsessiles.

Caulis 3–4.5^{dm} longi. Folia approximata 3–5^{cm} longa 5–8^{mm} lata, nervo laterali utrinsecus 1 opposito e basi remoto. Racemus floriferus pauciflorus vix scorpioideus, fructiferus elongatus. Calyx floriferus quam bractea paulo brevior, fructiferus 2–3-plo brevior, segmentis 7^{mm} longis dense longeque strigosis. Corolla aurata (cl. Seler in schedulis) 21^{mm} longa e basi sensim ampliata extus pubescens, lobis 3^{mm} longis atque latis. Antherae paulo infra fauces insertae oblongae 2^{mm} longae obtusae. Stylus paulo exsertus, stigmatibus distinctis. Nuculae plerumque binae ovoideae 3.5^{mm} longae ecarinatae albae nitidae foveolatae areola basilari gynobasi planae affixae.

Trinidad, Depart. Huehuetenango, Guat., alt. 1800^m, Aug. 1896, *Seler*, n. 3082.

Cyphomandra heterophylla Donn. Sm.—Glabra. Folia nitida penninervia dimorpha, inferiora ampla utrinsecus 4-pinnatilobata, superiora integra acuminata gemina disparia, alterum e basi inaequali subcordata oblongo-ovatum superne obliquum, alterum dimidio paene brevius cordiforme. Racemi pedunculati simplices aut e basi furcati scorpioidei elongati, floribus pedicellos aequantibus.

Frutex biorgyalis, trunco crasso, ramis fistulosis. Folia coriacea, inferiora (ad ramos primarios tantum obvia) subtus pallidiora basi cordata circumscriptione oblongo-ovata 3.2–4^{dm} longa 3–3.5^{dm} lata usque ad $\frac{2}{3}$ – $\frac{4}{5}$ lobata, lobis 3 lateralibus cum terminali late oblongis 6–7^{cm} latis breviter acuminatis, lobo quarto infimo brevi ovato deflexo, sinibus rotundis crispatis, petiolis 12–15^{cm} longis. Folia superiora concoloria 5–6 penninervia, in eodemjugo majus 14–20^{cm} longum, 7–11^{cm} latum, petiolo 2.5–3^{cm} longo, folium minus 7.5–11^{cm} longum 6–8.5^{cm} latum, petiolo 1.5–2^{cm} longo. Racemi circinnati secundiflori pedunculo 4–6^{cm} longo adjecto usque ad 12–18^{cm} longi, fructiferi usque ad 3^{dm} longi. Calyx 5^{mm} altus, lobis rotundis apiculo barbato instructis. Corolla purpurascens 20–22^{mm} longa, tubo 3^{mm} alto, lobis lineari-lanceolatis obtusis ad apicem versus intus pubescentibus. Stamina duas corollae partes aequantia, filamentis complanatis deorsum dilatatis brevissime coalitis 2^{mm} longis, antheris linearibus rectis, connectivo postice incrassato sub antherae apice evanido infra loculos gibboso-producto. Ovarium conicum 7^{mm} altum in stylum gracilem aequilongum desinens, stigmatibus capitato. Bacca prasina ovalis 3^{cm} longa.—Ad *C. Tejore* Sendt. foliis inferioribus ad *C. Hartwegi* Sendt. foliis superioribus floribusque accedit, ab utraque glabritate recedit.

La Emilia, Llanuras de S. Clara, Cost., alt. 250^m, Apr. 1896, *Donn. Sm.*, n. 6670 Pl. Guat., etc., qu. ed. *Donn. Sm.*—Buenos Aires, Cost., alt. 300^m, Jan. 1892, *Tonduz*, n. 6603 herb. nat. Cost.—Turrialba, Cost., alt. 500^m, Sept. 1894, *Pittier*, n. 9059 herb. nat. Cost.—Santa Clara, Cost., Sept. 1896, *Cooper*, n. 10,215 herb. nat. Cost.—Waldeck prope Madre de Dios, Cost., Oct. 1896, *Pittier*, n. 10,294 herb. nat. Cost.—Tuis, Prov. Cartago, Cost., alt. 650^m, Nov. 1897, *Tonduz*, n. 11,496 herb. nat. Cost.

Dermatocalyx parviflorus Oerst.—Haec species heterogoneo-dimorpha, e solis floribus brevibus 6^{mm} longis, antheris subsessilibus, stylo elongato descripta, formam insigniter diversam praebet inflorescentia arcte compacta, floribus 2.8^{cm} longis caducissimis, filamentis 1^{cm} longis, stylo quam ovarium brevius.—Suffrutex epiphyticus, foliis nonnunquam alternis. Ab incolis *Colmillo* (molaris) vocatur.

Suerre, Llanuras de Santa Clara, Cost., alt. 300^m, Apr. 1896, *Donn. Sm.*, n. 6706 Pl. Guat., etc., qu. ed. *Donn. Sm.*, forma longiflora.—La Palma, Cost., alt. 1550^m, Aug. 1898, *Tonduz*, n. 7450 Pl. Guat., etc., qu. ed. *Donn. Sm.* (n. 12,427 herb. nat. Cost.), forma breviflora.

Alloplectus calochlamys *Donn. Sm.*—Folia supra velutina subtus cano-sericea magnitudine leviter disparia oblongo-lanceolata utrinque acute angustata. Pedunculi 1–3-ni. Calyx usque

ad quatuor partes partitus, tubo campanulato pentagono, segmentis utrinque sanguineis patulis parum inaequalibus integris replicativis basi mutue applicatis. Corolla succosa cylindrica calycem aequans recta basi parum gibbosa intus immaculata, lobis sanguineis minutis denticulatis. Antherae suborbiculares.

Suffrutex epiphyticus, caule rufescente. Folia in eodem jugo conformia, alterum 16–20^{cm} longa 5–6^{cm} lata altero quinta parte majus, petiolis canaliculatis marginatis 1.5–2^{cm} longis. Pedunculi sericei 1.5–3.5^{cm} longi superne incrassati. Bractea herbacea lineares 1.5^{cm} longae. Calyx subobliquus 2.5^{cm} longus, tubo argyrosericeo 5^{mm} alto, segmentis oblongo-ovatis villosis. Corolla villosa ad fauces haud contracta, lobis rotundatis 1.5^{mm} longis. Vagina staminifera tota paene adnata 8^{mm} alta, filamentis tortis 1^{cm} longis, staminodio 3^{mm} longo, antheris in quadram conniventibus, loculis distinctis ovalibus 2^{mm} longis. Disci glandula unica lata. Ovarium ovoideum 4^{mm} altum villosum, stylo 1.5^{cm} longo superne incrassato, stigmatibus obliquo bilobis. Fructus ignotus.—*A. tigrino* Hanst. proximus tubo calycino insigniter differt.

Sacoyojú, Depart. Alta Verapaz, Guat., alt. 1200^m, Maj. 1879, *von Tuerckheim* (a Keck sub n. 456 distrib.).—Pansamalá, Depart. Alta Verapaz, Guat., alt. 1300^m, Jul. 1886, *von Tuerckheim*, n. 456 Pl. Guat., etc., qu. ed. Donn. Sm.

Aphelandra dolichantha Donn. Sm.—Folia nitida elliptica utrinque contracto-acuminata in petiolum brevem decurrentia. Spicae ternae subsessiles simplices, bracteis herbaceis integris ovato-lanceolatis calyce ter quaterve longioribus. Corollae albae tubus tenuissimus inter longissimos, labia breviter, antici lobis parum inaequalibus. Filamenta breviter, antheris inclusis.

Epiphytica, caule pubescente. Folia integra subtus pallidiora 13–18^{cm} longa 6.5–10^{cm} lata, nervis lateralibus utrinsecus 9–10 cum costa subtus conspicuis et pubescentibus, petiolis 5–10^{mm} longis. Spicae abbreviatae (in exemplaribus suppetentibus vix evolutis 9–11^{cm} longae), bracteis quadrifariis arcte imbricantibus 3–3.5^{cm} longis 1.2–1.3^{cm} latis praeter margines puberulos glabris plurinerviis. Calycis herbacei puberuli segmenta linearia 9–10^{mm} longa acuta. Corollae extus glandulari-puberulae in sicc. rufescentis tubus 5.5–6^{cm} longus 2^{mm} vix latus ad fauces breves paulo ampliatus ad $\frac{1}{4}$ longitudinis staminigerus, labium posticum oblongum 13^{mm} longum 5^{mm} latum breviter bilobum, labii antici lobum intermedium oblongo-ellipticum 18–20^{mm} longum 6–7^{mm} latum, lateralia oblongo-linearia 15–17^{mm} longa 4–5^{mm} lata. Filamenta 6^{mm} longa, antheris 3^{mm} longis apiculatis barba laterali connexis.

Discus cupularis 1.5^{mm} altus. Ovarium 2^{mm} longum, styli lobis 1^{mm} longis. Capsulae desunt.

Suerre, Llanuras de Santa Clara, Cost., alt. 300^m, Febr. 1896, *Donn. Sm.*, n. 6689 Pl. Guat. etc., qu. ed. Donn. Sm.

Glockeria monolopha Donn. Sm.—Folia subtus lineolata oblongo-ovata acuminata ima basi cuneata. Thyrsi pyramidati laxiflori. Corollae tubus tenuis in fauces late cylindraceas rectas apice haud contractas abrupte ampliatus, labium posticum lineari oblongum, anticum sub angulo recto divergens minutissime acuteque dentatum.

Caulis herbaceus 4^{dm} altus tetragonus, angulis glandulari-pubescentibus. Folia untrinque sparsim pubescentia 12–16^{cm} longa 6.5–9^{cm} lata, petiolis 1.5–4^{cm} longis. Thyrsi plerumque gemini folia superantes pubescentes, bracteis 2 foliaceis petiolatis cordiformibus aut oblongo-ovatis 2.5–5^{cm} longis, bracteolis subulatis 2–3^{mm} longis. Calycis glandulis conspersi segmenta linearia 4–5^{mm} longa. Corolla tenuiter membranacea glabra in sicc. flavescens, tubo 3^{mm} longo 1.5^{mm} lato, faucibus 1.5^{cm} longis, labiis corollam unilobam quasi simulantibus, postico 4^{mm} longo integro, antici dentibus lateralibus 0.5^{mm} longis, intermedio 0.25^{mm} vix longo. Filamenta 3^{cm} longa, antheris 3^{mm} longis. Capsula tetrasperma 12^{mm} longa calyce aucto triente longior in tertiam partem aspermam contracta.

Circa Capetillo juxta vias, Depart. Zacatepéquez, Guat., alt. 1500^m, Nov. 1889, *Heyde et Lux*, n. 4556 Pl. Guat. etc., qu. ed. Donn. Sm.

Glockeria ventricosa Donn. Sm.—Folia longe petiolata ovata aut oblongo-ovata acuminata basi rotundata aut subcordata. Thyrsus contractus elongatus densiflorus, bracteolis oblongis acuminatis. Corolla supra ovarium antice constricta, tubo antice inflato, faucibus cylindraceis subincurvis apice haud constrictis, labio postico elliptico, antici patentis dentibus brevibus rotundatis.

Suffrutex, ut videtur, ramulis teretibus cano-pilosis. Folia utrinque pilis conspersa 13–17^{cm} longa 6.5–9.5^{cm} lata, petiolis 4–8^{cm} longis. Thyrsus 3.5–5^{dm} longus, bracteis 2 foliaceis petiolatis ovato-lanceolatis 3–4.5^{cm} longis, bracteolis 8–13^{mm} longis. Calyx glandulari-pubescent 7^{mm} longus, fructigerus usque ad 13^{mm} longus, segmentis linearibus. Corollae parce pilosae in sicc. coccineae tubus subglobosus diam. 3–4 millimetralis, fauces 18^{mm} longae, labium posticum 8–10^{mm} longum 4–5^{mm} latum integrum, antici dentibus 1.5^{mm} longis.

Filamenta 3.5^{cm} longa, antheris 5^{mm} longis. Capsula tetrasperma 15–17^{mm} longa in tertiam partem aspermam contracta.—Speciei praecedenti affinis.

Alto del Roble, Volcan Barba, Cost., alt. 2609^m, Jan. 1891, *Pittier*, n. 3519 herb. nat. Cost.—Volcan de Turrialba, Cost., alt. 1800^m, Jan. 1899, *Pittier*, n. 7511 Pl. Guat. etc., qu. ed. Donn. Sm. (n. 13,223 herb. nat. Cost.).

RAZISEA SPICATA Oerst.—Species e speciminibus a solo Oersted adhuc lectis propter inflorescentiam non satis evolutam imperfecte descripta. Racemus longe pedunculatus elongatus, pedicellis primo singulis et brevissimis, aetate provectiore plurifasciculatis et internodia aequantibus. Antherae 1-loculares. Ovarium disco subgloboso paulo longius, ovulis in utroque loculo 2, stigmate globoso integro. Capsula lineari-oblonga in dimidiam aspermam contracta, seminibus 4 tuberculatis.

Suffrutex, ut videtur. Folia oblongo-elliptica aut -obovata acuminata in petiolum 1–3^{cm} longum attenuata interdum usque ad 32^{cm} longa et 11^{cm} lata obscure crenata. Pedunculi 4–10^{cm} longi, bracteis bracteolisque lineari-lanceolatis 3–4^{mm} longis, pedicellis interdum 7-fasciculatis et usque ad 8^{mm} longis. Calycis tubus 1^{mm} longus, segmenta linearia 7^{mm} longa. Corolla 5–6^{cm} longa, tubo 1^{cm} longo in fauces sensim ampliato, labio postico 1^{cm} longo, labii antici lobis ovatis 2^{mm} longis. Antherae oblongo-ellipticae 4^{mm} longae. Discus fere 2^{mm} longus atque latus. Ovarium 2.5^{mm} longum, stylo 7^{mm} longo stamina paulo superante. Capsula 2^{cm} longa, dimidia superiore torosa, inferiore compressa, seminibus compressis, retinaculis 2.5^{mm} longis rectis acutis.

In sylvis prope Siquirres, Llanuras de Santa Clara, Cost., alt. 200^m, Nov. 1890, *Pittier*, n. 3168 herb. nat. Cost.—Shiroles, Talamanca, Cost., alt. 100^m. Febr. 1895, *Tonduz*, n. 9299 herb. nat. Cost.—In dumetis fundi *Tuis* vocati, Prov. Cartago, Cost., alt. 650^m, Nov. 1897, *Tonduz*, n. 11503 herb. nat. Cost.—In summo monte juxta La Palma, Cost., alt. 1550^m, Aug. 1898, *Tonduz*, n. 7436 Pl. Guat. etc., qu. ed. Donn. Sm. (n. 12,494 herb. nat. Cost.).

Campderia paniculata Donn. Sm.—Folia cordiformia atque lata atque longa, apice bilobo. Racemi compositi in paniculam terminalem dispositi, pedicellis plurifasciculatis minute bracteolatis filiformibus. Perianthium alis in pedicellum decurrens, fructiferum parvum obovoideum.

Arbuscula (Thieme in schedula), ramulis cinereo-pubescentibus sulcatis flexuosis. Folia supra puberulo-asperula subtus fusco-pubescentia diametro

12–16 centimetralia, lobis subdeltoideis 1–3^{cm} longis obtusis sub angulo semirecto divergentibus, petiolis 1.5–3^{cm} longis, ocreis ovalibus 4^{mm} longis crassis caducis. Panícula sessilis folia aequans late pyramidata floribunda, bractea amplexante orbiculari 1.5–3.5^{cm} longa usque ad mediam bifida, bracteolis vix 1^{mm} longis, pedicellis 4–7-nis 3–4^{mm} longis triquetris medio articulatis. Perianthii coccinei 2^{mm} longi segmenta paene sejuncta ovalia, exteriora 3 late alata, interiora 2 plana. Filamenta brevissime monadelpha sensim dilatata ciliolulata 2^{mm} longa, antherarum loculis subglobosis discretis. Styli deflexi 0.5^{mm} longi. Perianthium fructiferum 5^{mm} longum pedicello longius, alis 1^{mm} latis, nuce triquetra ovoidea 3^{mm} longa nitida, semine conformi esulcato atro. Ab omnibus congeneribus tam foliis quam inflorescentia insigniter differt.

Ad ripas fluminis Chamelecon, Depart. Santa Bárbara, Honduras, alt. 500^m, Dec. 1888, *C. Thieme*, n. 5604 Pl. Guat. etc., qu. ed. Donn. Sm.

Euphorbia Chaculana Donn. Sm. (§TITHYMALOPSIS Kl. et Garcke.)—Sparsim pubescens. Radix tuberosa fusiformis, caulibus 3-chotomis, ramis repetitus dichotomis. Folia brevissime petiolata lineari-oblonga utrinque obtusa, chotomialia interdum ternata, majora oblongo-ovata. Involucra e dichotomiis graciliter pedunculata campanulata glabra, appendicibus coloratis ovalibus. Semina ovalia subquadrangula rugosa glabra.

Herba 8–17^{cm}, alta, radice 2^{cm} longa, diam. 1 centimetrali, caulibus stricte longeque ramosis, glandulis stipularibus nullis. Folia 1–1.5^{cm} longa 3–5^{mm} lata cartilagineo-marginata praeter costam subtus tantum manifestam enervia, facie superiori minute lepidota, utraque sparsim et margine densius pubescentibus, petiolis 1^{mm} longis. Pedunculi 7–12^{mm} longi folia fulcipientia plerumque aequantes. Involucrum 1^{mm} altum atque latum, lobis minutis fimbriatis, glandulis 5 transverse ellipticis, appendicibus glandula vix latioribus involucro aequilongis integris aut erosis. Capsula glabra 3^{mm} alta, seminibus 2^{mm} longis. Styli deficiunt.—Ad *E. biforem* S. Wats. et *E. Plumerae* S. Wats. proxime accedens, ab ea foliis subsesilibus, ab hac seminum sculptura, ab utraque pedunculis longioribus recedit.

Chaculá, Depart. Huehuetenango, Guat., alt. 1600^m, Jan. 1896, *Seler*, n. 3128.

Euphorbia Seleri Donn. Sm. (§CHAMAESYCEÆ Boiss.)—Canescens. Rhizoma lignosum, caulibus procumbentibus dichotomis, setulis stipularibus geminis. Folia breviter petiolata e basi semicordata ovata obtusa integerrima glabrescentia. Involucra

ad nodos supremos in axilla una solitaria breviter pedunculata campanulata subglabra, lobis triangulari-subulatis, glandulis transverse ovalibus flavescentibus, appendicibus obovatis integris. Styli longiusculi. Semina ovata subtrigona rugulosa.

Rhizoma 1^{dm} longum ramosum. Caules pubescentes 10–15^{cm} longi, stipulis 1^{mm} longis. Folia disticha opposita 5–7^{mm} longa 4–5^{mm} lata carnulosa exceptis novellis fere glabra, inferiora minora, petiolis quam stipulae paulo longioribus. Pedunculi 1–2^{mm} longi. Involucra 1.5^{mm} longa 1^{mm} lata a foliis fulcipientibus 2–3-plo superata, lobis ciliatulis, glandulis 4, appendicibus albis 1.5^{mm} longis ad apicem versus 1^{mm} latis basi glandula aequilatis. Styli 1^{mm} longi basi coaliti ultra medium bifidi. Capsulae (immaturae tantum suppetentes) paene glabrae, coccis subcarinatis, seminibus erubescenscentibus.

Chaculá, Depart. Huehuetenango, Guat., alt. 1600^m, Jan. 1896, *Seler*, n. 3127.

CECROPIA MEXICANA Hémssl. var. **macrostachya** Donn. Sm.—Spicae femininae quaternae usque ad 4^{dm} longae, pedunculis partialibus 8^{mm} longis glabris estriatis, seminibus brevius ovalibus.

Laguna de Buenos Aires, Cost., alt. 300^m, Febr. 1892, *Pittier*, n. 6666 herb. nat. Cost.—Atirro, Prov. Cartago, Cost., Mart. 1894, *Donn. Sm.*, n. 4934 Pl. Guat. etc. qu. ed. Donn. Sm.—Rio Poas, Cost., alt. 1200^m, Mart. 1896, *Donn. Sm.*, n. 6771 Pl. Guat. etc., qu. ed. Donn. Sm.—La Concepcion, Llanuras de Santa Clara, Cost., alt. 200^m, Febr. 1896, *Donn. Sm.*, n. 6774 Pl. Guat. etc., qu. ed. Donn. Sm.

Cecropia polyphlebia Donn. Sm.—Folia supra strigoso-scabrida subtus niveo-arachnoidea 10–11-fida, segmentis obovato-oblongis breviter acuminatis, nervis lateralibus arcte approximatis juxta marginem arcuato-anastomosantibus sicut costae venaeque subtus fuscis, petiolis glabris costas majores aequantibus. Spicae femininae sessiles quaternae breves crassae pedunculo brevissimo 3-plo longiores. Semina oblonga.

Stipulae longe denseque cinereo-sericeae 9–11^{cm} longae. Folia coriacea pilis e tuberculo ortis aspera peltata suborbicularia 4^{dm} in diametro superne usque ad 5 partes inferne usque ad 7 partes fissa, segmentis plerumque 10, majoribus infra apicem 7–8.5^{cm} latis, minoribus 3.5–5^{cm} latis, costis subtus validis et cinereo-pubescentibus, majoribus 20–24^{cm} longis, minoribus 12–14^{cm} longis, nervis lateralibus utrinsecus 20–30, venis subparallele transversis crebris. Pedunculus communis femininus 1.5–2^{cm} longus, spicis 4.5–5.5^{cm}

longis 1^{cm} in diam. seminibus 2.2^{mm} longis, compressione 3-4-gonis scrobulatis flavescens. Spathae utriusque sexus et spicae masculinae desunt.—*C. tubulosae* Ruiz proxima, ut videtur. *C. Humboldtiana* Klotzsch ob inflorescentiam fem. (descriptione adhuc carentem) nostrae speciei affinis, foliis tamen discrepans, pedunculum fem. 3.5-4^{cm} longum praebet, spicas habet 2-9-nas plerumque quinas sessiles 5.5-7^{cm} longas 7^{mm} in diam., semina elliptica compressa scrobiculata flavescens.

In sylvis prope LaPalma, Cost., alt. 1460^m, Sept. 1898, *Tonduz*, n. 7411 Pl. Guat. etc., qu. ed. Donn. Sm. (n. 12,642 herb. nat. Cost.).

BALTIMORE, MD.